



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L12-9TC-DIM-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CAST WHITE FLUSH TRIM w/SOLITE LENS

[LUMCAT] 6DS-L12-9TC-DIM-UNV-LW-OF-WH

[LAMPCAT] ARRAYA TUNABLE LED

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11218	12946	10971
55	8741	8959	8654
65	6079	6079	5902
75	3855	3759	3662
85	859	573	1145

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	813.578	813.578	813.578	813.578	813.578
5	815.898	811.838	811.838	811.258	812.998
10	808.359	804.880	804.300	801.400	806.039
15	797.341	791.542	786.903	784.584	786.903
20	757.909	766.027	770.087	759.649	749.791
25	663.968	682.524	732.394	689.483	666.867
30	495.801	553.790	625.116	557.849	496.381
35	303.859	365.907	490.002	345.611	305.019
40	229.634	252.250	335.753	242.392	226.735
45	184.403	195.421	212.818	190.202	180.344
50	147.871	154.249	158.888	150.770	147.871
55	116.557	116.557	119.456	117.137	115.397
60	84.663	85.243	84.083	84.083	85.823
65	59.728	59.728	59.728	59.148	57.988
70	39.432	38.852	36.533	38.272	38.852
75	23.195	22.615	22.615	22.036	22.036
80	12.757	11.598	11.018	11.018	11.018
85	1.740	2.320	1.160	1.740	2.320
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	299.62	N.A.	24.90
0-30	610.49	N.A.	50.70
0-40	855.09	N.A.	71.00
0-60	1116.02	N.A.	92.60
0-80	1200.66	N.A.	99.70
0-90	1204.74	N.A.	100.00
10-90	1127.46	N.A.	93.60
20-40	555.47	N.A.	46.10
20-50	710.96	N.A.	59.00
40-70	320.65	N.A.	26.60
60-80	84.63	N.A.	7.00
70-80	24.92	N.A.	2.10
80-90	4.08	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1204.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.28
10-20	222.35
20-30	310.86
30-40	244.61
40-50	155.49
50-60	105.44
60-70	59.72
70-80	24.92
80-90	4.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

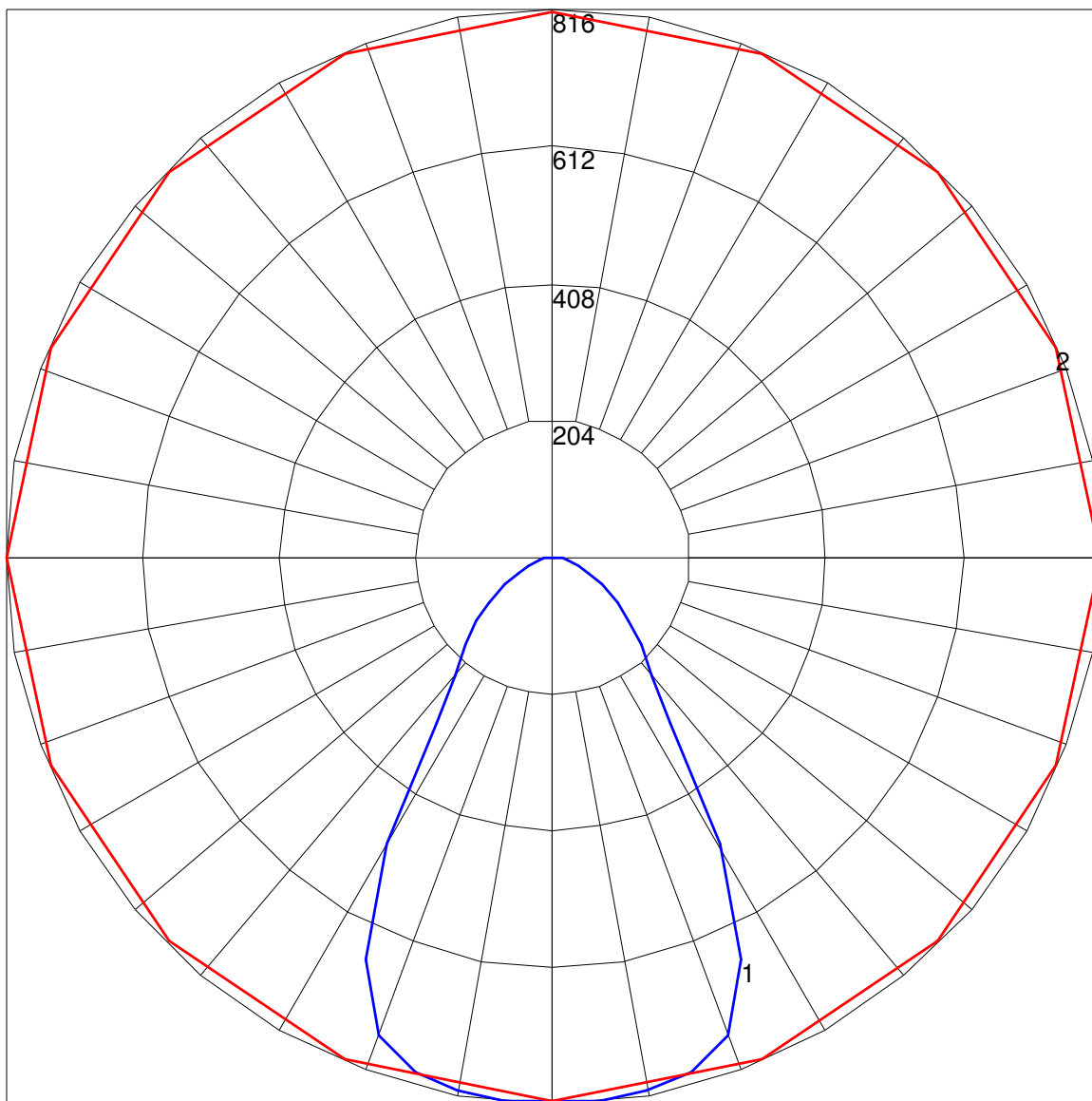
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	81	78	76	74	79	77	75	73	74	72	70	71	70	68	68	67	66	65
2	75	71	67	64	74	70	66	63	67	64	62	65	63	60	63	61	59	58
3	70	64	60	56	69	63	59	56	61	58	55	59	56	54	58	55	53	52
4	66	59	54	50	64	58	53	50	56	52	49	55	51	48	53	50	48	47
5	61	54	49	45	60	53	48	45	52	48	44	51	47	44	49	46	43	42
6	58	50	44	41	56	49	44	40	48	43	40	47	43	40	46	42	40	38
7	54	46	41	37	53	45	40	37	44	40	37	44	39	36	43	39	36	35
8	51	43	38	34	50	42	37	34	41	37	34	41	37	34	40	36	33	32
9	48	40	35	31	47	39	35	31	39	34	31	38	34	31	37	34	31	30
10	45	37	32	29	45	37	32	29	36	32	29	36	32	29	35	31	29	28

POLAR GRAPH



Maximum Candela = 815.898 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)